Timber Sale Appraisal
Run Duo

Sale FG-341-2025-W01020-01

District: Forest Grove

Date: May 29, 2024

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,942,246.65	$0.00	$1,942,246.65
		Project Work:	($219,373.00)
		Advertised Value:	$1,722,873.65

Timber Sale Appraisal
Run Duo
Sale FG-341-2025-W01020-01

District: Forest Grove **Date: May 29, 2024**

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	26	0	98
Western Hemlock / Fir	16	0	98
Red Cedar	15	0	98

Volume by Grade	2S	3S & 4S 6"-11"	3S	4S	Total
Douglas - Fir	3,403	492	0	0	3,895
Western Hemlock / Fir	58	22	0	0	80
Red Cedar	30	0	41	4	75
Total	3,491	514	41	4	4,050

Comments: LOCAL POND VALUES, APRIL 2024

RED ALDER AND OTHER HARDWOODS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
$206.09 = $497.00 - $290.91

NOBLE FIR AND OTHER CONIFERS:
STUMPAGE PRICE = POND VALUE - WESTERN HEMLOCK LOGGING COST
$212.34 = $543.62 - $331.28

BRANDING AND PAINTING ALLOWANCE = $2.00/MBF

FUEL COST ALLOWANCE = $5.00/GAL

HAULING COST ALLOWANCE = $1,250/DAY

OTHER COSTS (WITH PROFIT & RISK ADDED):
None

OTHER COSTS (NO PROFIT & RISK ADDED):

EQUIPMENT CLEANING: 3 PIECES @ $1,000/PIECE = $3,000

MACHINE TIME TO BLOCK/WATERBAR ROADS AND SKID TRAILS:
20 HOURS X $200/HOUR = $4,000

MACHINE TIME TO PILE LANDING SLASH:
28 HOURS X $200/HOUR = $5,600

TOTAL OTHER COSTS (NO P&R) = $12,600

SLASH TREATMENT: 28 ACRES X $250/ACRE = $7,000

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING):
MOVE IN: $4,888.99
GENERAL ROAD MAINT: 11.59 miles X $2,516.24 = $29,163.22
TOTAL ROAD MAINTENANCE: $34,052.21 / 4,050 MBF = $8.40/MBF

District: Forest Grove **Date: May 29, 2024**

Logging Conditions

Combination#: 1

Douglas - Fir	64.12%
Western Hemlock / Fir	60.38%
Red Cedar	66.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 17 **bd. ft / load:** 4600

cost / mbf: $102.02

machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Medium)

Combination#: 2

Douglas - Fir	35.88%
Western Hemlock / Fir	39.62%
Red Cedar	34.00%

Logging System: Shovel **Process:** Manual Falling/Delimbing

yarding distance: Short (400 ft) **downhill yarding:** No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 20.5 **bd. ft / load:** 4600

cost / mbf: $106.05

machines: Shovel Logger

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District: Forest Grove **Date: May 29, 2024**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	15%
Project Costs:	$219,373.00	**Other Costs (P/R):**	$0.00
Slash Disposal:	$7,000.00	**Other Costs:**	$12,600.00

Miles of Road

Road Maintenance: $8.40

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	2.0	4.8
Western Hemlock / Fir	$0.00	2.0	3.8
Red Cedar	$0.00	1.0	3.8

Timber Sale Appraisal
Run Duo

Sale FG-341-2025-W01020-01

District: Forest Grove

Date: May 29, 2024

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$103.47	$8.57	$2.17	$132.81	$0.00	$37.05	$1.73	$2.00	$3.11	$290.91
Western Hemlock / Fir									
$103.62	$8.57	$2.17	$167.76	$0.00	$42.32	$1.73	$2.00	$3.11	$331.28
Red Cedar									
$103.39	$8.57	$2.17	$335.53	$0.00	$67.45	$1.73	$2.00	$3.11	$523.95

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$770.82	$479.91	$0.00
Western Hemlock / Fir	$0.00	$543.62	$212.34	$0.00
Red Cedar	$0.00	$1,270.75	$746.80	$0.00

Timber Sale Appraisal
Run Duo
Sale FG-341-2025-W01020-01

District: Forest Grove **Date: May 29, 2024**

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Western Hemlock / Fir	0	$0.00	$0.00
Red Cedar	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,895	$479.91	$1,869,249.45
Western Hemlock / Fir	80	$212.34	$16,987.20
Red Cedar	75	$746.80	$56,010.00

Gross Timber Sale Value

Recovery: $1,942,246.65

Prepared By: Adrian Torres **Phone:** 503-359-7460

TIMBER SALE SUMMARY
Run Duo
#FG-341-2025-W01020-01

1. **Location:** Portions of Sections 12, 13, 14, 23, & 24, T4N, R6W, W.M., Clatsop County, Oregon.

2. **Type of Sale:** This timber sale is 91 net acres of Modified Clearcut and 1 acre of Right-of-Way Timber removal. The timber will be sold on a recovery basis at a sealed bid auction.

3. **Revenue Distribution:** 100% BOF; 100% Clatsop County

4. **Sale Acreage:** Acres are net of Stream Buffers, Green Tree Retention Areas, and road prisms. Acreage was determined using ESRI ArcMap GIS Pro software.

5. **Cruise:** The Timber Sale was cruised by ODF timber cruisers in April of 2024. For more information, see Cruise Report.

6. **Timber Description:** The Timber Sale Area consists of a well-stocked, 83 year-old stand of Douglas-fir with minor components of western hemlock, western redcedar and red alder. This timber stand has an average of 167 ft^2 of basal area and an average Douglas-fir DBH of 26 inches. The estimated average net Douglas-fir volume is approximately 42.5 MBF per acre.

7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80% with variable aspects. Unit 1 is 66% ground-based yarding and 34% cable yarding. Unit 2 is 56% ground-based yarding and 44% cable yarding. The average horizontal skid trail length is 200 feet and the maximum is approximately 590 feet. The average cable yarding road length is 370 feet and the maximum is approximately 1,000 feet.

8. **Access:** Access to the Timber Sale Area is on surfaced roads. From Forest Grove, travel north on Highway 47 through Banks then merge onto Highway 26 westbound and continue for approximately 14.3 miles to North Fork Wolf Creek Road and turn right. Continue for 4.5 miles to McGregor Road and turn right. Continue for 1.5 miles to Olson Road. To access Unit 1, turn left on Olson Road. Continue for 0.3 miles to Unit 1. To access Unit 2, continue on McGregor Road from the Olson Road intersection for 1.4 miles and turn left on a unnamed spur. Continue for 0.2 miles to Unit 2.

9. **Projects:**

Project No. 1: Rocked Road Construction	$73,364.02
Project No. 2: Road Improvement, Rock Replacement, & Maintenance	$136,916.20
Project No. 3: Road Vacating	$9,092.78
Total Credit for all Projects	$219,373.00

PROJECT COST SUMMARY SHEET

Timber Sale: Run Duo
Sale Number: FG-341-2025-W01020-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

Road Segment	Length	Cost
F to G	6+50	$11,287.82
H to I	10+10	$17,143.90
J to K	21+50	$35,098.06
L to M	4+45	$8,050.74
	42+55 stations	
	0.81 miles	

Total Rock =

3,725 cy	4" - 0

Move-in = $1,783.50

TOTAL PROJECT COST = $73,364.02

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

Road Segment	Length	Cost
A to B	406+30	$16,291.28
C to D	64+00	$43,461.01
E to F	17+75	$9,639.80
N to O	23+50	$18,850.98
P to Q	15+05	$19,555.29
R to S	26+35	$5,046.45
T to U	8+30	$448.98
V to W	21+35	$20,293.94
	582+60 stations	
	11.03 miles	

Total Rock =

144 cy	1½" - 0
7,775 cy	4" - 0
12 cy	Riprap

Move-in = $3,328.47

TOTAL PROJECT COST = $136,916.20

PROJECT NO. 3: ROAD VACATING

Road Segment	Length	Cost
V1 to V2	17+80	$8,871.73
	17+80 stations	
	0.34 miles	

Move-in = $221.05

TOTAL PROJECT COST = $9,092.78

TOTAL CREDITS = $219,373.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: A to B | Maintenance: 406+30 stations | 7.70 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

MAINTENANCE						
Clearing (scatter)	1.22	ac @	$850.00	per acre =	$1,037.00	
Grade, shape, & roll	406.30	sta @	$35.45	per sta =	$14,403.33	
				TOTAL IMPROVEMENT COSTS =		$15,440.33
EROSION CONTROL						
Grass seed & fertilizer	1.22	ac @	$697.50	per ac =	$850.95	
				TOTAL EROSION CONTROL COSTS =		$850.95
				TOTAL PROJECT COST =		$16,291.28

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: C to D | Improvement: 64+00 stations; 1.21 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

IMPROVEMENT						
Clearing & grubbing (scatter)	0.74	ac @	$1,597.05	per acre =	$1,181.81	
Clean culvert inlet & outlet, scatter waste	2	ea @	$27.50	per ea =	$55.00	
Improve turnout	5	ea @	$36.30	per ea =	$181.50	
Construct roadside landing	3	ea @	$181.50	per ea =	$544.50	
Grade, ditch, & roll	64.00	sta @	$35.45	per sta =	$2,268.80	
				TOTAL IMPROVEMENT COSTS =		$4,231.61

CULVERTS						
Culverts and Bands						
Markers & Stakes						
Culvert markers	1	ea @	$12.00	per ea =	$12.00	
Additional Installation Cost						
Repair culvert inlet at 35+05	0.5	hrs @	$192.50	per hr =	$96.25	
				TOTAL CULVERT COSTS =		$108.25

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock (0+00 to 17+30)	4" - 0	$0.99	$8.69	$1.35	536	$5,912.08
Surfacing rock (17+30 to 64+00)	4" - 0	$0.99	$8.69	$1.35	2,475	$27,299.25
Junction (0+00 to 17+30)	4" - 0	$0.99	$8.69	$1.35	36	$397.08
Junction (17+30 to 64+00)	4" - 0	$0.99	$8.69	$1.35	48	$529.44
Turnout	4" - 0	$0.99	$8.69	$1.35	120	$1,323.60
Roadside landing	4" - 0	$0.99	$8.69	$1.35	285	$3,143.55
				Subtotal =	3,500	$38,605.00

Totals		
	All Rock =	3,500
	4" - 0	3,500

TOTAL ROCK COSTS = $38,605.00

EROSION CONTROL						
Grass seed & fertilizer	0.74	ac @	$697.50	per ac =	$516.15	
				TOTAL EROSION CONTROL COSTS =		$516.15

TOTAL PROJECT COST = $43,461.01

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: E to F | Improvement: 17+75 stations; 0.34 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

IMPROVEMENT						
Clearing & grubbing (scatter)	0.21	ac @	$1,100.00	per acre =	$231.00	
Improve turnout	2	ea @	$36.30	per ea =	$72.60	
Grade, ditch, & roll (15+80)	0.60	sta @	$35.45	per sta =	$21.27	
Grade, ditch, & roll	17.75	sta @	$35.45	per sta =	$629.23	
				TOTAL IMPROVEMENT COSTS =		$954.10

CULVERTS						
Culverts and Bands						
18" Diameter	30	lf @	$22.05	per lf =	$661.50	
Markers & Stakes						
Culvert markers	4	ea @	$12.00	per ea =	$48.00	
				TOTAL CULVERT COSTS =		$709.50

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$13.62	$18.70	$0.55	24	$788.88
				Subtotal =	24	$788.88
Surfacing rock						
Surfacing rock (0+00 to 15+80)	4" - 0	$0.99	$8.61	$1.35	490	$5,365.50
Surfacing rock (60 ft. Segment at 15+80)	4" - 0	$0.99	$8.61	$1.35	19	$208.05
Surfacing rock (15+80 to 17+75)	4" - 0	$0.99	$8.61	$1.35	82	$897.90
Junction	4" - 0	$0.99	$8.61	$1.35	24	$262.80
Turnout	4" - 0	$0.99	$8.61	$1.35	28	$306.60
				Subtotal =	643	$7,040.85

Totals		
	All Rock =	667
	1½" - 0	24
	4" - 0	643

TOTAL ROCK COSTS = $7,829.73

EROSION CONTROL						
Grass seed & fertilizer	0.21	ac @	$697.50	per ac =	$146.47	
				TOTAL EROSION CONTROL COSTS =		$146.47

TOTAL PROJECT COST = $9,639.80

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo Sale Number: FG-341-2025-W01020-01

Road Segment: F to G Construction: 6+50 stations

0.12 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION						
Clearing & grubbing (scatter)	0.75	ac @	$1,692.00	per ac =	$1,269.00	
Drift road construction	6.50	sta @	$198.00	per sta =	$1,287.00	
Grade, ditch, & roll	6.50	sta @	$39.65	per sta =	$257.72	
				TOTAL CONSTRUCTION COSTS =		$2,813.72

CULVERTS						
Culverts and Bands						
18" Diameter	30	lf @	$22.05	per lf =	$661.50	
Culvert markers	1	ea @	$12.00	per ea =	$12.00	
				TOTAL CULVERT COSTS =		$673.50

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	$0.99	$9.03	$1.35	423	$4,809.51
Curve widening	4" - 0	$0.99	$9.03	$1.35	189	$2,148.93
Junction	4" - 0	$0.99	$9.03	$1.35	48	$545.76
				Subtotal =	660	$7,504.20

Totals		
	All Rock =	660
	4" - 0	660

TOTAL ROCK COSTS = $7,504.20

EROSION CONTROL						
Grass seed & fertilizer	0.38	ac @	$780.00	per ac =	$296.40	
				TOTAL EROSION CONTROL COSTS =		$296.40

TOTAL PROJECT COST = $11,287.82

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo Sale Number: FG-341-2025-W01020-01

Road Segment: H to I Construction: 10+10 stations

0.19 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION						
Clearing & grubbing (scatter)	1.16	ac @	$1,692.00	per ac =	$1,962.72	
Balanced road construction	1.70	sta @	$120.00	per sta =	$204.00	
Drift	8.40	sta @	$198.00	per sta =	$1,663.20	
Turnaround	1	ea @	$90.75	per ea =	$90.75	
Landing	1	ea @	$345.40	per ea =	$345.40	
Grade, ditch, & roll	10.10	sta @	$39.65	per sta =	$400.46	
				TOTAL CONSTRUCTION COSTS =		$4,666.53

CULVERTS						
Culverts and Bands						
18" Diameter	70	lf @	$22.05	per lf =	$1,543.50	
Markers & Stakes						
Culvert markers	2	ea @	$12.00	per ea =	$24.00	
				TOTAL CULVERT COSTS =		$1,567.50

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4"- 0	$0.99	$9.53	$1.35	657	$7,798.59
Junction	4" - 0	$0.99	$9.53	$1.35	24	$284.88
Turnaround	4" - 0	$0.99	$9.53	$1.35	20	$237.40
Landing	4" - 0	$0.99	$9.53	$1.35	180	$2,136.60
				Subtotal =	881	$10,457.47

Totals		
	All Rock =	881
	4" - 0	881

TOTAL ROCK COSTS = $10,457.47

EROSION CONTROL						
Grass seed & fertilizer	0.58	ac @	$780.00	per ac =	$452.40	
				TOTAL EROSION CONTROL COSTS =		$452.40

TOTAL PROJECT COST = $17,143.90

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo Sale Number: FG-341-2025-W01020-01

Road Segment: J to K Construction: 21+50 stations

0.41 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION						
Clearing & grubbing (scatter)	2.47	ac @	$1,692.00	per ac =	$4,179.24	
Balanced road construction	13.35	sta @	$120.00	per sta =	$1,602.00	
Curve widening	1.90	sta @	$120.00	per sta =	$228.00	
Drift	8.15	sta @	$198.00	per sta =	$1,613.70	
Construct settling pond	12	ea @	$27.50	per ea =	$330.00	
Haul	16	cy @	$1.89	per cy =	$30.24	
Shape and compact waste material	16	cy @	$0.35	per cy =	$5.60	
Turnout	3	ea @	$72.60	per ea =	$217.80	
Turnaround	1	ea @	$90.75	per ea =	$90.75	
Landing	1	ea @	$345.40	per ea =	$345.40	
Grade, ditch, & roll	21.50	sta @	$39.65	per sta =	$852.47	
				TOTAL CONSTRUCTION COSTS =		$9,495.20

CULVERTS						
Culverts and Bands						
18" Diameter	130	lf @	$22.05	per lf =	$2,866.50	
24" Diameter	30	lf @	$31.90	per lf =	$957.00	
Markers & Stakes						
Culvert markers	5	ea @	$12.00	per ea =	$60.00	
				TOTAL CULVERT COSTS =		$3,883.50

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	$0.99	$9.32	$1.35	1,398	$16,300.68
Curve widening	4" - 0	$0.99	$9.32	$1.35	67	$781.22
Junction	4" - 0	$0.99	$9.32	$1.35	24	$279.84
Turnout	4" - 0	$0.99	$9.32	$1.35	87	$1,014.42
Turnaround	4" - 0	$0.99	$9.32	$1.35	20	$233.20
Landing	4" - 0	$0.99	$9.32	$1.35	180	$2,098.80
				Subtotal =	1,776	$20,708.16

Totals		
	All Rock =	1,776
	4" - 0	1,776

TOTAL ROCK COSTS = $20,708.16

EROSION CONTROL						
Grass seed & fertilizer	1.24	ac @	$780.00	per ac =	$967.20	
Straw mulch (bale)	4	ea @	$11.00	per ea =	$44.00	
				TOTAL EROSION CONTROL COSTS =		$1,011.20

TOTAL PROJECT COST = $35,098.06

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo Sale Number: FG-341-2025-W01020-01

Road Segment: L to M Construction: 4+45 stations

0.08 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION						
Clearing & grubbing (scatter)	0.52	ac @	$1,692.00	per ac =	$879.84	
Balanced road construction	1.40	sta @	$120.00	per sta =	$168.00	
Drift	3.05	sta @	$198.00	per sta =	$603.90	
Landing	1	ea @	$242.00	per ea =	$242.00	
Grade, ditch, & roll	4.45	sta @	$39.65	per sta =	$176.44	
				TOTAL CONSTRUCTION COSTS =		$2,070.18

CULVERTS						
Culverts and Bands						
18" Diameter	40	lf @	$22.05	per lf =	$882.00	
Markers & Stakes						
Culvert markers	1	ea @	$12.00	per ea =	$12.00	
				TOTAL CULVERT COSTS =		$894.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	$0.99	$9.63	$1.35	289	$3,459.33
Junction	4" - 0	$0.99	$9.63	$1.35	24	$287.28
Landing	4" - 0	$0.99	$9.63	$1.35	95	$1,137.15
				Subtotal =	408	$4,883.76

Totals		
	All Rock =	408
	4" - 0	408

TOTAL ROCK COSTS = $4,883.76

EROSION CONTROL						
Grass seed & fertilizer	0.26	ac @	$780.00	per ac =	$202.80	
				TOTAL EROSION CONTROL COSTS =		$202.80

TOTAL PROJECT COST = $8,050.74

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: N to O | Improvement: 23+50 stations; 0.45 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

IMPROVEMENT						
Clearing & grubbing (scatter)	0.27	ac @	$1,100.00	per acre =	$297.00	
Clean culvert inlet & outlet, scatter waste	3	ea @	$27.50	per ea =	$82.50	
Construct settling pond	6	ea @	$27.50	per ea =	$165.00	
Haul	8	cy @	$1.13	per cy =	$9.04	
Compact waste area	8	cy @	$0.35	per cy =	$2.80	
Improve turnout	2	ea @	$36.30	per ea =	$72.60	
Construct turnaround	1	ea @	$90.75	per ea =	$90.75	
Construct roadside landing	1	ea @	$181.50	per ea =	$181.50	
Improve landing	1	ea @	$121.00	per ea =	$121.00	
Grade, ditch, & roll	23.50	sta @	$35.45	per sta =	$833.07	
				TOTAL IMPROVEMENT COSTS =		$1,855.26

CULVERTS						
Culverts and Bands						
18" Diameter	30	lf @	$22.05	per lf =	$661.50	
Markers & Stakes						
Culvert markers	4	ea @	$12.00	per ea =	$48.00	
				TOTAL CULVERT COSTS =		$709.50

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$13.62	$19.43	$0.55	24	$806.40
				Subtotal =	24	$806.40
Surfacing rock						
Surfacing rock	4" - 0	$0.99	$9.59	$1.35	987	$11,774.91
Junction	4" - 0	$0.99	$9.59	$1.35	24	$286.32
Turnout	4" - 0	$0.99	$9.59	$1.35	38	$453.34
Turnaround	4" - 0	$0.99	$9.59	$1.35	20	$238.60
Roadside landing	4" - 0	$0.99	$9.59	$1.35	95	$1,133.35
Landing	4" - 0	$0.99	$9.59	$1.35	60	$715.80
				Subtotal =	1,224	$14,602.32

Totals		
	All Rock =	1,248
	1½" - 0	24
	4" - 0	1,224

TOTAL ROCK COSTS = $15,408.72

EROSION CONTROL						
Grass seed & fertilizer	0.52	ac @	$697.50	per ac =	$362.70	
Straw mulch acre	0.52	ac @	$990.00	per ac =	$514.80	
				TOTAL EROSION CONTROL COSTS =		$877.50

TOTAL PROJECT COST = $18,850.98

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: P to Q | Improvement: 15+05 stations; 0.29 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

IMPROVEMENT						
Clearing & grubbing (scatter)	0.18	ac @	$1,692.00	per acre =	$304.56	
Improve turnout	1	ea @	$36.30	per ea =	$36.30	
Construct turnaround	1	ea @	$90.75	per ea =	$90.75	
Construct roadside landing	2	ea @	$181.50	per ea =	$363.00	
Grade, ditch, & roll	15.05	sta @	$39.65	per sta =	$596.73	
				TOTAL IMPROVEMENT COSTS =		$1,391.34

CULVERTS						
Culverts and Bands						
18" Diameter	60	lf @	$22.05	per lf =	$1,323.00	
Markers & Stakes						
Culvert markers	2	ea @	$12.00	per ea =	$24.00	
				TOTAL CULVERT COSTS =		$1,347.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$13.62	$20.19	$0.55	48	$1,649.28
				Subtotal =	48	$1,649.28
Surfacing rock						
Surfacing rock	4" - 0	$0.99	$10.02	$1.35	978	$12,088.08
Turnout	4" - 0	$0.99	$10.02	$1.35	29	$358.44
Turnaround	4" - 0	$0.99	$10.02	$1.35	20	$247.20
Roadside landing	4" - 0	$0.99	$10.02	$1.35	190	$2,348.40
				Subtotal =	1,217	$15,042.12

Totals		
	All Rock =	1,265
	1½" - 0	48
	4" - 0	1,217

TOTAL ROCK COSTS = $16,691.40

EROSION CONTROL						
Grass seed & fertilizer	0.18	ac @	$697.50	per ac =	$125.55	
				TOTAL EROSION CONTROL COSTS =		$125.55

TOTAL PROJECT COST = $19,555.29

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: R to S | Improvement: 26+35 stations; 0.50 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

IMPROVEMENT						
Clearing & grubbing (scatter)	0.31	ac @	$1,692.00	per acre =	$524.52	
Improve turnout	1	ea @	$36.30	per ea =	$36.30	
Construct roadside landing	2	ea @	$181.50	per ea =	$363.00	
Grade, ditch, & roll	26.35	sta @	$39.65	per sta =	$1,044.77	
				TOTAL IMPROVEMENT COSTS =		$1,968.59

CULVERTS						
Markers & Stakes						
Culvert markers	2	ea @	$12.00	per ea =	$24.00	
				TOTAL CULVERT COSTS =		$24.00

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Surfacing rock						
Junction	4" - 0	$0.99	$10.92	$1.35	24	$318.24
Roadside landing	4" - 0	$0.99	$10.92	$1.35	190	$2,519.40
				Subtotal =	214	$2,837.64

Totals		
	All Rock =	214
	4" - 0	214

TOTAL ROCK COSTS = $2,837.64

EROSION CONTROL						
Grass seed & fertilizer	0.31	ac @	$697.50	per ac =	$216.22	
				TOTAL EROSION CONTROL COSTS =		$216.22

TOTAL PROJECT COST = $5,046.45

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: T to U | Maintenance: 8+30 stations | 0.16 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

MAINTENANCE						
Clearing (scatter)	0.10	ac @	$850.00	per acre =	$85.00	
Grade, ditch, & roll	8.30	sta @	$35.45	per sta =	$294.23	
				TOTAL IMPROVEMENT COSTS =		$379.23
EROSION CONTROL						
Grass seed & fertilizer	0.10	ac @	$697.50	per ac =	$69.75	
				TOTAL EROSION CONTROL COSTS =		$69.75
				TOTAL PROJECT COST =		$448.98

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: V to W | Improvement: 21+35 stations; 0.40 miles

PROJECT NO. 2: ROAD IMPROVEMENT, ROCK REPLACEMENT, & MAINTENANCE

IMPROVEMENT						
Clearing & grubbing (scatter)	0.25	ac @	$1,100.00	per acre =	$275.00	
Cutslope layback (4+95 to 5+80)						
Excavate & load	166	cy @	$1.94	per cy =	$322.04	
Haul	216	cy @	$0.85	per cy =	$183.60	
Shape and compact waste material	216	cy @	$0.35	per cy =	$75.60	
Cutslope layback (10+05 to 10+75)						
Excavate & load	137	cy @	$1.94	per cy =	$265.78	
Haul	178	cy @	$0.69	per cy =	$122.82	
Shape and compact waste material	178	cy @	$0.35	per cy =	$62.30	
Construct settling pond	6	ea @	$27.50	per ea =	$165.00	
Haul	8	cy @	$0.89	per cy =	$7.12	
Compact waste area	8	cy @	$0.35	per cy =	$2.80	
Construct turnaround	1	ea @	$181.50	per ea =	$181.50	
Excavate, place and & compact fill	120	cy @	$1.94	per cy =	$232.80	
Improve roadside landing	1	ea @	$90.75	per ea =	$90.75	
Grade, ditch, & roll	21.35	sta @	$39.65	per sta =	$846.52	
					TOTAL IMPROVEMENT COSTS =	$2,833.63

CULVERTS						
Culverts and Bands						
18" Diameter	30	lf @	$22.05	per lf =	$661.50	
24" Diameter	50	lf @	$31.90	per lf =	$1,595.00	
Markers & Stakes						
Culvert markers	3	ea @	$12.00	per ea =	$36.00	
					TOTAL CULVERT COSTS =	$2,292.50

ROCK

	Rock Size	Base Cost $/cy	Haul Cost $/cy	Placement/ Processing Cost $/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	$13.62	$20.91	$0.55	48	$1,683.84
Energy dissipator	Riprap	$1.85	$10.98	$1.75	12	$174.96
				Subtotal =	60	$1,858.80
Surfacing rock						
Surfacing rock	4" - 0	$0.99	$10.98	$1.35	897	$11,948.04
Turnaround	4" - 0	$0.99	$10.98	$1.35	20	$266.40
Roadside landing	4" - 0	$0.99	$10.98	$1.35	60	$799.20
				Subtotal =	977	$13,013.64

Totals		
	All Rock =	1,037
	1½" - 0	48
	4" - 0	977
	Riprap	12

TOTAL ROCK COSTS = $14,872.44

EROSION CONTROL						
Grass seed & fertilizer	0.25	ac @	$697.50	per ac =	$174.37	
Straw mulch acre	0.10	ac @	$990.00	per ac =	$99.00	
Straw mulch bale	2	ea @	$11.00	per ea =	$22.00	
					TOTAL EROSION CONTROL COSTS =	$295.37

TOTAL PROJECT COST = $20,293.94

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo | Sale Number: FG-341-2025-W01020-01

Road Segment: V1 to V2 | Maintenance: 17+80 stations | 0.34 miles

PROJECT NO. 3: ROAD VACATING

Construct tank trap	1	ea @	$60.50	per ea =	$60.50
Existing waste relocation	350	cy @	$1.94	per ea =	$679.00
Excavate & load	350	cy @	$1.94	per cy =	$679.00
Haul to waste area No. 1	455	cy @	$1.44	per cy =	$655.20
Compact waste area	455	cy @	$0.35	per cy =	$159.25
Fill removal End-haul (1+55)					
Excavate & load	66	cy @	$1.94	per cy =	$128.04
Haul to waste area No. 1	86	cy @	$1.22	per cy =	$104.92
Compact waste area	86	cy @	$0.35	per cy =	$30.10
Fill removal End-haul (8+15)					
Excavate & load	78	cy @	$1.94	per cy =	$151.32
Haul to waste area No. 1	101	cy @	$1.44	per cy =	$145.44
Compact waste area	101	cy @	$0.35	per cy =	$35.35
Fill removal End-haul (16+05)					
Excavate & load	146	cy @	$1.94	per cy =	$283.24
Haul to waste area No. 1	190	cy @	$1.20	per cy =	$228.00
Compact waste area	190	cy @	$0.35	per cy =	$66.50
Stream channel widening	4	hrs @	$225.00	per hr =	$900.00
Rip rocked road surface	17.80	sta @	$55.00	per sta =	$979.00
Rip & narrow landing	2	ea @	$165.00	per ea =	$330.00
Grass seed & fertilizer	1.93	ac @	$697.50	per ac =	$1,346.17
Mulch	1.93	ac @	$990.00	per ac =	$1,910.70

TOTAL PROJECT COST = $8,871.73

SUMMARY OF CONSTRUCTION COST

Timber Sale: Run Duo Sale Number: FG-341-2025-W01020-01

PROJECT No. 1, 2 & 3 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

Equipment	Total
Grader	$447.95
Roller (smooth/grid) & Compactor	$428.48
Excavator (Large) - Equipment Cleaning	$1,859.57
Dozer (Large) - Equipment Cleaning	$1,859.57
Dump Truck (10cy +)	$383.95
Water Truck (2,500 Gal)	$353.49

TOTAL MOVE-IN COSTS = $5,333.01

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale:	Run Duo	
Sale Number:	FG-341-2025-W01020-01	
Stockpile Name:	West Mac	
4" - 0:	11,500 cy	(truck measure)
Riprap:	12 cy	(truck measure)
Total truck yardage:	11,512 cy	

Move-in					
Move in excavator					$905.60
Move in dump trucks					$300.94
				Subtotal =	$1,206.54
				Per CY =	$0.10/cy
4"-0 Base Cost					
Load dump truck	$0.90	/ cy x	11,500	cy =	$10,350.00
				Subtotal =	$10,350.00
				Per CY =	$0.89/cy
Riprap Base Cost					
Load dump truck	$1.75	/ cy x	12	cy =	$21.00
				Subtotal =	$21.00
				Per CY =	$1.75

4"-0 Cost =	$0.99/cy
Riprap Cost =	$1.85/cy

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Run Duo
Sale Number: FG-341-2025-W01020-01
Stockpile Name: Rock Creek Ridge

1 1/2" - 0: 144 cy (truck measure)
Total truck yardage: 144 cy

Move-in					
Move in excavator					$913.60
Move in loader					$817.22
Move in Dump Trucks					$101.14
				Subtotal =	$1,831.96
				Per CY =	$12.72/cy
1 1/2"-0 Base Cost					
Load dump truck	$0.90	/ cy x	144	cy =	$129.60
				Subtotal =	$129.60
				Per CY =	$0.90

1 1/2"-0 Cost = $13.62/cy

CRUISE REPORT
Run Duo
#FG-341-2025-W01020-01

1. LOCATION:

Portions of Sections 12, 13, 14, 23 & 24, T4N, R6W, W.M., Clatsop County, Oregon.

2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 57%, average stand diameter of 25 inches, sampling error (SE) of 9% and a minimum of 100 grade trees.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in April of 2024 with 39 variable radius grade plots using a 40 BAF prism. Plots were laid out 4 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

158 trees were measured and graded producing a standard error of 5.3% on the Douglas-fir Basal Area and 6.4% on the Douglas-fir Net Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following the Official Log Scaling and Grading Rules as adopted by the NW Log Rules Advisory Group. 40 foot segments were favored.

a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.
b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
c) **Form Factors:** Measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING:

a) **Volumes and Statistics:** Cruise estimates and sampling statistics were derived from SuperAce 2008 cruise software.

b) **Deductions:** The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted.

7. CRUISERS: The sale was cruised by Adrian Torres, Colton Turner, and Shamus Smith.

Prepared by: Adrian Torres 04-28-2024

Reviewed by: Mark Savage 04-28-2024
Date

TC PSTATS

PROJECT STATISTICS

PROJECT RUNDUO

DATE 5/7/2024

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	13	00U2	00MC	91.00	38	167	S	W
T4N	R6W	23	00U1	00MC					

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	38	167	4.4		
CRUISE	38	167	4.4	5,167	3.2
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	145	43.0	25.6	151	30.3	153.4	43,642	43,398	8,407	8,407
DOUG FIR-S	9	3.7	21.8	95	2.0	9.5	123	123	31	31
WHEMLOCK	5	3.5	16.4	91	1.3	5.1	911	901	186	186
WR CEDAR	8	6.6	15.4	78	2.2	8.6	852	852	269	269
TOTAL	*167*	*56.8*	*23.9*	*135*	*36.1*	*176.5*	*45,528*	*45,274*	*8,894*	*8,894*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1	COEFF		**SAMPLE TREES - BF**			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	50.7	4.2	1,258	1,313	1,368			
DOUG FIR-S	300.0	105.9		83	172			
WHEMLOCK	62.5	31.1	476	690	904			
WR CEDAR	112.5	42.4	122	211	301			
TOTAL	*61.8*	*4.8*	*1,119*	*1,175*	*1,232*	*153*	*38*	*17*

CL 68.1	COEFF		**SAMPLE TREES - CF**			# OF TREES REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	45.3	3.8	240	250	259			
DOUG FIR-S	300.0	105.9		21	43			
WHEMLOCK	65.0	32.3	99	147	194			
WR CEDAR	90.9	34.3	41	62	83			
TOTAL	*56.0*	*4.3*	*216*	*225*	*235*	*125*	*31*	*14*

CL 68.1	COEFF		**TREES/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	57.4	9.3	39	43	47			
DOUG FIR-S	345.2	55.9	2	4	6			
WHEMLOCK	438.4	71.1	1	3	6			
WR CEDAR	254.9	41.3	4	7	9			
TOTAL	*70.4*	*11.4*	*50*	*57*	*63*	*198*	*50*	*22*

CL 68.1	COEFF		**BASAL AREA/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	33.0	5.3	145	153	162			
DOUG FIR-S	270.8	43.9	5	9	14			
WHEMLOCK	260.7	42.3	3	5	7			
WR CEDAR	250.8	40.7	5	9	12			
TOTAL	*32.5*	*5.3*	*167*	*177*	*186*	*42*	*11*	*5*

CL 68.1	COEFF		**NET BF/ACRE**			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	39.2	6.4	40,640	43,398	46,155			
DOUG FIR-S	616.4	99.9	0	123	247			
WHEMLOCK	266.4	43.2	512	901	1,290			
WR CEDAR	278.6	45.1	467	852	1,237			

TC PSTATS

PROJECT STATISTICS

PROJECT RUNDUO

DATE 5/7/2024

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	13	00U2	00MC	91.00	38	167	S	W
T4N	R6W	23	00U1	00MC					

CL 68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL	*35.8*	*5.8*	*42,644*	*45,274*	*47,904*	*51*	*13*	*6*

CL 68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	36.1	5.8	7,916	8,407	8,899			
DOUG FIR-S	616.4	99.9	0	31	61			
WHEMLOCK	269.3	43.6	105	186	268			
WR CEDAR	258.7	41.9	156	269	382			
TOTAL	*32.0*	*5.2*	*8,433*	*8,894*	*9,354*	*41*	*10*	*5*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

TT4N RR6W S13 Ty00MC 20.00
TT4N RR6W S23 Ty00MC 71.00

Project: RUNDUO
Acres 91.00

Page 1
Date 5/7/2024
Time 2:29:07PM

Spp	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		2M	87	.6	38,410	38,165	3,473			26	74				100	40	17	520	2.38	73.4
DF		3M	11		4,487	4,487	408		98	2			2	2	96	39	9	111	0.75	40.5
DF		4M	2		745	745	68		100			30	51	11	7	22	6	31	0.44	23.7
DF	**Totals**		96	.6	43,642	43,398	3,949		12	23	65	1	1	0	98	37	13	315	1.67	137.6
DF	S	CU														34	10		0.00	7.6
DF	S	2M	93		115	115	10				100				100	40	20	700	3.88	.2
DF	S	3M	7		8	8	1		100				100			25	8	50	1.27	.2
DF	**Totals**		0		123	123	11		7		93		7		93	34	10	16	0.12	7.9
WH		CU														6	27		0.00	.5
WH		2M	71	1.5	658	649	59			45	55	13			87	38	17	443	2.27	1.5
WH		3M	10		83	83	8		100						100	40	9	133	1.06	.6
WH		4M	19		170	170	15		100			9	5		86	34	6	51	0.31	3.3
WH	**Totals**		2	1.1	911	901	82		28	33	39	11	1		88	33	11	152	0.95	5.9
RC		2M	40		341	341	31			61	39				100	40	14	286	2.00	1.2
RC		3M	54		463	463	42		100						100	40	7	75	0.65	6.2
RC		4M	6		48	48	4		100			72	28			16	6	23	0.37	2.1
RC	**Totals**		2		852	852	78		60	24	16	4	2		94	35	8	90	0.82	9.5
Totals				0.6	45,528	45,274	4,120		13	23	63	1	1	0	98	36	12	281	1.53	160.9

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 5/7/2024

TT4N RR6W S13 Ty00MC 20.00
TT4N RR6W S23 Ty00MC 71.00

Project RUNDUO
Acres 91.00

Time: 2:29:09PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		11	1	87	82	1.631	1.08	1.63	14.8	60.0	.69	24	98	63	22	9
DF		12	1	88	97	1.370	1.08	2.74	12.7	55.0	.99	35	151	90	32	14
DF		15	3	89	125	2.631	3.23	5.26	24.0	108.3	3.60	126	570	328	115	52
DF		17	1	85	124	.683	1.08	1.37	31.6	125.0	1.23	43	171	112	39	16
DF		18	5	89	136	3.045	5.38	9.13	27.9	127.3	7.27	255	1,163	662	232	106
DF		20	3	88	145	1.480	3.23	4.44	36.0	164.4	4.55	160	730	414	145	66
DF		21	2	90	138	.895	2.15	2.68	38.9	186.7	2.97	104	501	271	95	46
DF		22	6	89	145	2.408	6.36	7.23	43.7	204.6	9.00	316	1,478	819	287	135
DF		23	2	88	143	.712	2.05	2.13	47.9	226.5	2.91	102	484	265	93	44
DF		24	9	89	153	3.051	9.59	10.18	49.9	238.9	14.47	508	2,433	1,317	462	221
DF		25	13	89	160	4.075	13.89	14.12	53.5	265.5	21.51	755	3,748	1,958	687	341
DF		26	11	88	155	3.130	11.54	10.27	59.9	297.6	17.53	615	3,055	1,595	560	278
DF		27	11	89	160	2.952	11.74	10.48	62.4	326.5	18.63	654	3,422	1,695	595	311
DF		28	7	90	166	1.738	7.43	6.47	66.8	355.8	12.32	432	2,304	1,121	393	210
DF		29	15	90	178	3.476	15.94	13.48	72.0	390.4	27.66	971	5,261	2,517	883	479
DF		30	14	89	166	3.009	14.77	11.00	75.8	396.6	23.77	834	4,362	2,163	759	397
DF		31	5	89	170	1.008	5.28	3.84	79.8	428.2	8.75	307	1,646	796	279	150
DF		32	9	88	161	1.663	9.29	5.95	86.4	451.2	14.66	514	2,686	1,334	468	244
DF		33	5	89	178	.906	5.38	3.62	91.2	507.5	9.42	331	1,839	857	301	167
DF		34	6	89	172	1.008	6.36	3.88	97.4	549.2	10.77	378	2,130	980	344	194
DF		35	4	88	174	.629	4.21	2.37	106.1	593.4	7.17	252	1,407	653	229	128
DF		36	4	88	175	.609	4.30	2.44	105.5	595.0	7.33	257	1,449	667	234	132
DF		37	2	85	158	.275	2.05	.82	129.6	662.7	3.05	107	547	277	97	50
DF		40	2	88	167	.235	2.05	.83	141.6	770.1	3.35	117	638	305	107	58
DF		41	1	85	160	.107	.98	.32	163.6	813.3	1.49	52	260	136	48	24
DF		42	1	87	140	.102	.98	.30	155.0	803.3	1.35	47	245	122	43	22
DF		44	1	87	152	.093	.98	.28	188.8	1016.7	1.49	52	282	136	48	26
DF		47	1	88	177	.081	.98	.32	181.6	1040.0	1.68	59	337	153	54	31
DF		Totals	145	89	151	43.000	153.36	137.60	61.1	315.4	239.61	8,407	43,398	21,804	7,651	3,949
WH		9	1	91	79	2.436	1.08	2.44	10.6	60.0	.83	26	146	75	24	13
WH		20	1	93	120	.493	1.08	1.48	34.1	166.7	1.62	51	247	147	46	22
WH		27	1	86	120	.246	.98	.74	61.1	260.0	1.44	45	192	131	41	17
WH		32	1	82	125	.175	.98	.52	57.6	306.7	.97	30	161	88	28	15
WH		37	1	85	107	.131	.98	.26	132.5	595.0	1.11	35	156	101	32	14
WH		Totals	5	90	91	3.481	5.08	5.44	34.3	165.7	5.96	186	901	543	170	82
RC		11	1	81	78	1.631	1.08	1.63	17.1	60.0	.66	28	98	60	25	9
RC		13	1	80	75	1.168	1.08	1.17	23.8	70.0	.65	28	82	59	25	7
RC		14	1	79	62	1.007	1.08	1.01	25.3	60.0	.60	25	60	54	23	5
RC		15	1	80	77	.877	1.08	1.75	17.5	55.0	.72	31	96	66	28	9
RC		16	1	75	64	.771	1.08	.77	36.9	70.0	.67	28	54	61	26	5
RC		20	1	81	123	.493	1.08	1.48	31.8	116.7	1.11	47	173	101	43	16
RC		21	1	81	80	.447	1.08	.89	39.9	115.0	.84	36	103	76	32	9
RC		28	1	81	119	.252	1.08	.76	61.0	246.7	1.08	46	186	99	42	17
RC		Totals	8	80	78	6.645	8.61	9.46	28.5	90.1	6.33	269	852	576	245	78
DF	S	15	1	88	98	.877	1.08									
DF	S	17	1	88	109	.683	1.08									
DF	S	18	1	85	94	.609	1.08									
DF	S	19	1	90	121	.547	1.08									
DF	S	30	1	85	65	.219	1.08									
DF	S	31	1	87	74	.205	1.08									
DF	S	32	1	89	99	.193	1.08									

TC PSTNDSUM

Stand Table Summary

Page 2
Date: 5/7/2024

TT4N RR6W S13 Ty00MC 20.00
TT4N RR6W S23 Ty00MC 71.00

Project RUNDUO
Acres 91.00

Time: 2:29:09PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF	S	33	1	87	78	.164	.98	.33	93.5	375.0	.88	31	123	80	28	11
DF	S	34	1	37	20	.155	.98									
DF	S	Totals	9	85	95	3.652	9.49	.33	93.5	375.0	.88	31	123	80	28	11
Totals			167	87	135	56.778	176.54	152.83	58.2	296.2	252.77	8,894	45,274	23,002	8,093	4,120

TC PLOGSTVB

Log Stock Table - MBF

TT4N RR6W S13 Ty00MC	20.00
TT4N RR6W S23 Ty00MC	71.00

Project: RUNDUO
Acres 91.00

Date 5/7/2024
Time 2:29:06PM

Spp	S T	So Grt	de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	25+
DF		2M		40	3,495		3,473	87.9						257	420	1157	1121	488		414
DF		3M		24	1		1	.0				1								
DF		3M		25	1		1	.0					1							
DF		3M		27	2		2	.0				2								
DF		3M		28	3		3	.1			1	2								
DF		3M		30	1		1	.0			1									
DF		3M		31	2		2	.0			1	1								
DF		3M		32	1		1	.0				1								
DF		3M		33	1		1	.0			1									
DF		3M		34	3		3	.1			1	1	1							
DF		3M		36	3		3	.1			3									
DF		3M		37	2		2	.1			1	1								
DF		3M		38	2		2	.0			2									
DF		3M		40	386		386	9.8			61	127	190	8						
DF		4M		12	1		1	.0			1									
DF		4M		13	2		2	.0			2									
DF		4M		14	2		2	.0			2									
DF		4M		15	3		3	.1			3	1								
DF		4M		16	3		3	.1			3									
DF		4M		17	2		2	.0			1	1								
DF		4M		18	2		2	.0			2									
DF		4M		19	3		3	.1			3									
DF		4M		20	4		4	.1			2	1								
DF		4M		21	5		5	.1			2	3								
DF		4M		22	7		7	.2			7									
DF		4M		23	2		2	.1			2									
DF		4M		24	2		2	.0			2									
DF		4M		25	1		1	.0			1	1								
DF		4M		26	7		7	.2			5	2								
DF		4M		27	6		6	.2			6									
DF		4M		28	1		1	.0			1									
DF		4M		29	4		4	.1			4									
DF		4M		31	2		2	.0			2									
DF		4M		32	2		2	.0			2									
DF		4M		33	2		2	.0			2									
DF		4M		34	1		1	.0			1									
DF		4M		35	1		1	.0			1									

TC PLOGSTVB

Log Stock Table - MBF

TT4N RR6W S13 Ty00MC 20.00
TT4N RR6W S23 Ty00MC 71.00

Project: RUNDUO
Acres 91.00

Date 5/7/2024
Time 2:29:06PM

Spp	S T	So Grt	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	25+
DF		4	M	37	2		2	.0			2									
DF		4	M	38	1		1	.0			1									
DF		4	M	40	2		2	.0				2								
DF		Totals			3,971		3,949	95.9			131	146	192	264	420	1157	1121	488		414
DF	S	2	M	40	10		10	93.3									10			
DF	S	3	M	25	1		1	6.7				1								
DF		Totals			11		11	.3				1					10			
WH		2	M	20	7		7	9.1									7			
WH		2	M	40	52	1.7	52	62.9						4	16	19		12		
WH		3	M	40	8		8	9.2				5	2							
WH		4	M	16	1		1	1.1			1									
WH		4	M	19	0		0	.5			0									
WH		4	M	27	1		1	1.0				1								
WH		4	M	39	13		13	16.2			13									
WH		Totals			83	1.1	82	2.0			15	6	2	4	16	19	7	12		
RC		2	M	40	31		31	40.0						19		12				
RC		3	M	40	42		42	54.3			27	11	4							
RC		4	M	13	2		2	3.2			2									
RC		4	M	16	1		1	.9			1									
RC		4	M	23	1		1	1.6			1									
RC		Totals			78		78	1.9			31	11	4	19		12				
Total		All Species			4,143		4,120	100.0			177	164	198	288	437	1188	1139	500		414

TC PSTATS

PROJECT STATISTICS

PROJECT RUNDUO

DATE 5/7/2024

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	23	00U1	00MC	71.00	29	135	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	29	135	4.7		
CRUISE	29	135	4.7	4,595	2.9
DBH COUNT					
REFOREST COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	118	48.2	24.9	153	32.6	162.8	47,550	47,450	9,096	9,096
DOUG FIR-S	7	4.3	20.4	100	2.1	9.7				
WR CEDAR	8	8.5	15.4	78	2.8	11.0	1,092	1,092	345	345
WHEMLOCK	2	3.8	11.6	86	0.8	2.8	503	503	98	98
TOTAL	*135*	*64.7*	*23.0*	*135*	*38.9*	*186.2*	*49,145*	*49,046*	*9,539*	*9,539*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0

SAMPLE TREES - BF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	48.4	4.4	1,227	1,284	1,342			
DOUG FIR-S								
WR CEDAR	112.5	42.4	122	211	301			
WHEMLOCK	111.1	104.0		280	571			
TOTAL	*61.4*	*5.3*	*1,079*	*1,139*	*1,200*	*151*	*38*	*17*

CL 68.1 SD: 1.0

SAMPLE TREES - CF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	42.9	3.9	231	241	250			
DOUG FIR-S								
WR CEDAR	90.9	34.3	41	62	83			
WHEMLOCK	114.8	107.5		57	117			
TOTAL	*55.6*	*4.8*	*205*	*215*	*225*	*123*	*31*	*14*

CL 68.1 SD: 1.0

TREES/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	49.3	9.3	44	48	53			
DOUG FIR-S	328.4	62.0	2	4	7			
WR CEDAR	218.0	41.2	5	9	12			
WHEMLOCK	453.7	85.7	1	4	7			
TOTAL	*61.9*	*11.7*	*57*	*65*	*72*	*159*	*40*	*18*

CL 68.1 SD: 1.0

BASAL AREA/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	27.8	5.3	154	163	171			
DOUG FIR-S	285.6	53.9	4	10	15			
WR CEDAR	214.4	40.5	7	11	16			
WHEMLOCK	373.9	70.6	1	3	5			
TOTAL	*28.9*	*5.4*	*176*	*186*	*196*	*34*	*9*	*4*

CL 68.1 SD: 1.0

NET BF/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	32.1	6.1	44,570	47,450	50,330			
DOUG FIR-S								
WR CEDAR	239.3	45.2	599	1,092	1,586			
WHEMLOCK	386.8	73.0	136	503	871			

TC PSTATS

PROJECT STATISTICS

PROJECT RUNDUO

DATE 5/7/2024

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	23	00U1	00MC	71.00	29	135	S	W

CL 68.1	COEFF		NET BF/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL	*29.6*	*5.6*	*46,303*	*49,046*	*51,788*	*36*	*9*	*4*

CL 68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR	29.6	5.6	8,588	9,096	9,604			
DOUG FIR-S								
WR CEDAR	221.5	41.8	201	345	489			
WHEMLOCK	394.2	74.4	25	98	171			
TOTAL	*25.8*	*4.9*	*9,073*	*9,539*	*10,004*	*28*	*7*	*3*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

TT4N RR6W S23 Ty00MC 71.00

Project: RUNDUO
Acres 71.00

Page 1
Date 5/7/2024
Time 2:32:46PM

Spp	S T	So Grt ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		2M	87	.2	41,560	41,460	2,944			27	73				100	40	17	509	2.30	81.5
DF		3M	11		5,162	5,162	366		100				2	1	97	39	9	111	0.73	46.7
DF		4M	2		828	828	59		100			33	54	9	3	21	6	30	0.42	27.3
DF	**Totals**		97	.2	47,550	47,450	3,369		13	24	64	1	1	0	98	37	13	305	1.60	155.5
DF	S	CU														34	10		0.00	9.5
DF	**Totals**															34	10		0.00	9.5
RC		2M	40		437	437	31			61	39				100	40	14	286	2.00	1.5
RC		3M	54		593	593	42		100						100	40	7	75	0.65	7.9
RC		4M	6		62	62	4		100			72	28			16	6	23	0.37	2.7
RC	**Totals**		2		1,092	1,092	78		60	24	16	4	2		94	35	8	90	0.82	12.1
WH		2M	45		228	228	16			100					100	40	15	360	1.60	.6
WH		3M	15		76	76	5		100						100	40	9	120	0.83	.6
WH		4M	40		200	200	14		100			6			94	35	6	53	0.28	3.8
WH	**Totals**		1		503	503	36		55	45		3			97	36	8	100	0.54	5.0
Totals				0.2	49,145	49,046	3,482		14	24	62	1	1	0	98	36	12	269	1.45	182.1

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 5/7/2024

TT4N RR6W S23 Ty00MC 71.00

Project RUNDUO
Acres 71.00

Time: 2:32:48PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		11	1	87	82	2.090	1.38	2.09	14.8	60.0	.88	31	125	63	22	9
DF		12	1	88	97	1.756	1.38	3.51	12.7	55.0	1.27	45	193	90	32	14
DF		15	3	89	125	3.372	4.14	6.74	24.0	108.3	4.62	162	731	328	115	52
DF		17	1	85	124	.875	1.38	1.75	31.6	125.0	1.58	55	219	112	39	16
DF		18	5	89	136	3.903	6.90	11.71	27.9	127.3	9.32	327	1,491	662	232	106
DF		20	3	88	145	1.897	4.14	5.69	36.0	164.4	5.83	205	936	414	145	66
DF		21	2	90	138	1.147	2.76	3.44	38.9	186.7	3.81	134	642	271	95	46
DF		22	5	89	150	2.613	6.90	7.84	44.9	212.7	10.04	352	1,667	713	250	118
DF		23	1	89	159	.478	1.38	1.43	52.7	256.7	2.15	76	368	153	54	26
DF		24	8	89	155	3.512	11.03	11.85	50.0	241.9	16.89	593	2,867	1,199	421	204
DF		25	12	89	161	4.856	16.55	16.99	53.2	264.8	25.75	903	4,499	1,828	641	319
DF		26	8	89	160	2.993	11.03	10.10	60.2	306.7	17.32	608	3,098	1,230	432	220
DF		27	10	89	163	3.469	13.79	12.49	62.8	332.8	22.35	784	4,156	1,587	557	295
DF		28	6	90	170	1.935	8.28	7.42	66.3	356.5	14.03	492	2,645	996	349	188
DF		29	13	90	181	3.909	17.93	15.64	71.3	390.6	31.79	1,115	6,107	2,257	792	434
DF		30	11	89	171	3.091	15.17	11.80	74.8	398.3	25.16	883	4,701	1,786	627	334
DF		31	4	89	176	1.053	5.52	4.21	78.3	425.6	9.39	330	1,792	667	234	127
DF		32	5	88	174	1.235	6.90	4.94	83.4	451.0	11.73	412	2,228	833	292	158
DF		33	5	89	178	1.161	6.90	4.64	91.2	507.5	12.08	424	2,357	857	301	167
DF		34	5	89	178	1.094	6.90	4.38	96.2	550.5	12.00	421	2,409	852	299	171
DF		35	3	89	181	.619	4.14	2.48	104.5	602.5	7.38	259	1,493	524	184	106
DF		36	4	88	175	.781	5.52	3.12	105.5	595.0	9.39	329	1,858	667	234	132
DF		37	1	84	166	.185	1.38	.55	133.3	716.7	2.10	74	397	149	52	28
DF		40	1	88	177	.158	1.38	.63	131.3	747.5	2.37	83	473	168	59	34
DF		Totals	118	89	153	48.180	162.76	155.46	58.5	305.2	259.23	9,096	47,450	18,405	6,458	3,369
RC		11	1	81	78	2.090	1.38	2.09	17.1	60.0	.84	36	125	60	25	9
RC		13	1	80	75	1.496	1.38	1.50	23.8	70.0	.84	36	105	59	25	7
RC		14	1	79	62	1.290	1.38	1.29	25.3	60.0	.77	33	77	54	23	5
RC		15	1	80	77	1.124	1.38	2.25	17.5	55.0	.93	39	124	66	28	9
RC		16	1	75	64	.988	1.38	.99	36.9	70.0	.86	36	69	61	26	5
RC		20	1	81	123	.632	1.38	1.90	31.8	116.7	1.42	60	221	101	43	16
RC		21	1	81	80	.573	1.38	1.15	39.9	115.0	1.08	46	132	76	32	9
RC		28	1	81	119	.323	1.38	.97	61.0	246.7	1.39	59	239	99	42	17
RC		Totals	8	80	78	8.517	11.03	12.12	28.5	90.1	8.11	345	1,092	576	245	78
WH		9	1	91	79	3.122	1.38	3.12	10.6	60.0	1.06	33	187	75	24	13
WH		20	1	93	120	.632	1.38	1.90	34.1	166.7	2.07	65	316	147	46	22
WH		Totals	2	91	86	3.754	2.76	5.02	19.5	100.3	3.13	98	503	223	70	36
DF	S	15	1	88	98	1.124	1.38									
DF	S	17	1	88	109	.875	1.38									
DF	S	18	1	85	94	.781	1.38									
DF	S	19	1	90	121	.701	1.38									
DF	S	30	1	85	65	.281	1.38									
DF	S	31	1	87	74	.263	1.38									
DF	S	32	1	89	99	.247	1.38									
DF	S	Totals	7	88	100	4.271	9.66									
Totals			135	88	135	64.722	186.21	172.60	55.3	284.2	270.47	9,539	49,046	19,203	6,772	3,482

TC PLOGSTVB

Log Stock Table - MBF

TT4N RR6W S23 Ty00MC 71.00

Project: RUNDUO
Acres 71.00

Page 1
Date 5/7/2024
Time 2:32:45PM

Spp	S T	So Grt	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	25+
DF		2M		40	2,951		2,944	87.4						230	392	989	947	386		304
DF		3M		24	1		1	.0				1								
DF		3M		27	2		2	.0				2								
DF		3M		28	3		3	.1			1	2								
DF		3M		30	1		1	.0			1									
DF		3M		31	2		2	.1			1	1								
DF		3M		32	1		1	.0				1								
DF		3M		34	1		1	.0				1								
DF		3M		36	2		2	.1			2									
DF		3M		38	2		2	.1			2									
DF		3M		40	352		352	10.4			59	113	180							
DF		4M		12	1		1	.0			1									
DF		4M		13	2		2	.1			2									
DF		4M		14	2		2	.0			2									
DF		4M		15	3		3	.1			2	1								
DF		4M		16	3		3	.1			3									
DF		4M		17	2		2	.1			1	1								
DF		4M		18	2		2	.0			2									
DF		4M		19	3		3	.1			3									
DF		4M		20	3		3	.1			2	1								
DF		4M		21	5		5	.1			2	3								
DF		4M		22	6		6	.2			6									
DF		4M		23	2		2	.1			2									
DF		4M		24	2		2	.1			2									
DF		4M		25	1		1	.0			1	1								
DF		4M		26	6		6	.2			4	2								
DF		4M		27	5		5	.2			5									
DF		4M		28	1		1	.0			1									
DF		4M		29	4		4	.1			4									
DF		4M		31	2		2	.0			2									
DF		4M		32	2		2	.1			2									
DF		4M		33	2		2	.1			2									
DF		4M		37	2		2	.1			2									
DF		Totals			3,376		3,369	96.7			116	129	180	230	392	989	947	386		304
RC		2M		40	31		31	40.0						19		12				
RC		3M		40	42		42	54.3			27	11	4							

TC PLOGSTVB

Log Stock Table - MBF

TT4N RR6W S23 Ty00MC 71.00

Project: RUNDUO
Acres 71.00

Page 2
Date 5/7/2024
Time 2:32:45PM

Spp	ST	So Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	25+
RC		4M	13	2		2	3.2			2									
RC		4M	16	1		1	.9			1									
RC		4M	23	1		1	1.6			1									
RC		Totals		78		78	2.2			31	11	4	19		12				
WH		2M	40	16		16	45.2							16					
WH		3M	40	5		5	15.1				5								
WH		4M	16	1		1	2.5			1									
WH		4M	39	13		13	37.2			13									
WH		Totals		36		36	1.0			14	5			16					
Total		All Species		3,489		3,482	100.0			162	145	184	249	408	1001	947	386		304

TC PSTATS

PROJECT STATISTICS

PROJECT RUNDUO

DATE 5/7/2024

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	13	00U2	00MC	20.00	9	32	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	9	32	3.6		
CRUISE	9	32	3.6	571	5.6
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	27	24.6	29.9	141	21.9	120.0	29,769	29,011	5,963	5,963
DOUG FIR-S	2	1.5	33.5	50	1.5	8.9	561	561	140	140
WHEMLOCK	3	2.5	31.2	119	2.4	13.3	2,357	2,312	500	500
TOTAL	*32*	*28.6*	*30.2*	*135*	*25.9*	*142.2*	*32,688*	*31,885*	*6,603*	*6,603*

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0

SAMPLE TREES - BF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	58.1	11.4	1,275	1,439	1,602			
DOUG FIR-S	141.4	132.4		375	872			
WHEMLOCK	21.6	15.0	819	963	1,108			
TOTAL	*62.1*	*11.0*	*1,182*	*1,328*	*1,473*	*154*	*39*	*17*

CL 68.1 SD: 1.0

SAMPLE TREES - CF

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF TREES REQ. 5	10	INF. POP. 15
DOUG FIR	50.2	9.8	260	289	317			
DOUG FIR-S	141.4	132.4		93	217			
WHEMLOCK	24.3	16.8	172	207	242			
TOTAL	*54.0*	*9.5*	*243*	*269*	*295*	*116*	*29*	*13*

CL 68.1 SD: 1.0

TREES/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	54.4	19.2	20	25	29			
DOUG FIR-S	198.5	70.1	0	1	2			
WHEMLOCK	157.3	55.5	1	3	4			
TOTAL	*49.7*	*17.6*	*24*	*29*	*34*	*111*	*28*	*12*

CL 68.1 SD: 1.0

BASAL AREA/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	37.3	13.2	104	120	136			
DOUG FIR-S	198.4	70.0	3	9	15			
WHEMLOCK	150.0	52.9	6	13	20			
TOTAL	*31.8*	*11.2*	*126*	*142*	*158*	*45*	*11*	*5*

CL 68.1 SD: 1.0

NET BF/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	34.7	12.2	25,458	29,011	32,564			
DOUG FIR-S	300.0	105.9		561	1,155			
WHEMLOCK	151.0	53.3	1,080	2,312	3,544			
TOTAL	*30.9*	*10.9*	*28,410*	*31,885*	*35,359*	*43*	*11*	*5*

CL 68.1 SD: 1.0

NET CUFT FT/ACRE

	COEFF VAR.%	S.E.%	LOW	AVG	HIGH	# OF PLOTS REQ. 5	10	INF. POP. 15
DOUG FIR	35.6	12.6	5,213	5,963	6,713			
DOUG FIR-S	300.0	105.9		140	288			

TC PSTATS

PROJECT STATISTICS

PROJECT RUNDUO

DATE 5/7/2024

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T4N	R6	13	00U2	00MC	20.00	9	32	S	W

			NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
CL	68.1	COEFF						
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK		153.2	54.1	230	500	771			
TOTAL		*32.1*	*11.3*	*5,855*	*6,603*	*7,352*	*46*	*12*	*5*

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

TT4N RR6W S13 Ty00MC 20.00

Project: RUNDUO
Acres 20.00

Page 1
Date 5/7/2024
Time 2:34:42PM

Spp	S T	So Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		2M	91	2.8	27,226	26,468	529			22	78				100	40	19	593	2.86	44.7
DF		3M	7		2,093	2,093	42		81	19			2	8	90	38	9	114	0.96	18.4
DF		4M	2		450	450	9		100			12	28	27	33	28	6	40	0.54	11.1
DF	**Totals**		91	2.5	29,769	29,011	580		7	21	71	0	1	1	98	38	14	391	2.13	74.2
DF	S	CU														17	9		0.00	.7
DF	S	2M	93		524	524	10				100				100	40	20	700	3.88	.7
DF	S	3M	7		37	37	1		100				100			25	8	50	1.27	.7
DF	**Totals**		2		561	561	11		7		93		7		93	28	12	255	2.31	2.2
WH		CU														6	27		0.00	2.2
WH		2M	92	2.0	2,188	2,143	43			25	75	17			83	36	18	485	2.64	4.4
WH		3M	5		107	107	2		100						100	40	11	180	1.90	.6
WH		4M	3		62	62	1		100			36	64			22	7	32	0.68	1.9
WH	**Totals**		7	1.9	2,357	2,312	46		7	23	70	17	2		81	26	17	254	2.08	9.1
Totals				2.5	32,688	31,885	638		7	21	72	1	1	1	97	36	15	373	2.13	85.5

TC PSTNDSUM

Stand Table Summary

Page 1
Date: 5/7/2024

TT4N RR6W S13 Ty00MC 20.00

Project RUNDUO
Acres 20.00

Time: 2:34:43PM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		22	1	86	119	1.684	4.44	5.05	36.9	160.0	5.32	187	808	106	37	16
DF		23	1	87	126	1.540	4.44	4.62	42.6	193.3	5.61	197	893	112	39	18
DF		24	1	88	131	1.415	4.44	4.24	48.5	210.0	5.87	206	891	117	41	18
DF		25	1	87	149	1.304	4.44	3.91	58.1	276.7	6.48	227	1,082	130	45	22
DF		26	3	87	142	3.616	13.33	10.85	59.1	267.8	18.27	641	2,905	365	128	58
DF		27	1	86	123	1.118	4.44	3.35	56.7	243.3	5.41	190	816	108	38	16
DF		28	1	88	140	1.039	4.44	3.12	70.3	350.0	6.25	219	1,091	125	44	22
DF		29	2	88	151	1.938	8.89	5.81	78.6	388.3	13.02	457	2,258	260	91	45
DF		30	3	87	147	2.716	13.33	8.15	81.1	387.8	18.84	661	3,160	377	132	63
DF		31	1	88	148	.848	4.44	2.54	88.9	443.3	6.44	226	1,128	129	45	23
DF		32	4	87	143	3.183	17.78	9.55	92.0	451.7	25.05	879	4,313	501	176	86
DF		34	1	88	144	.705	4.44	2.11	106.3	540.0	6.41	225	1,142	128	45	23
DF		35	1	86	148	.665	4.44	2.00	113.4	553.3	6.45	226	1,104	129	45	22
DF		37	1	86	149	.595	4.44	1.79	125.5	603.3	6.39	224	1,077	128	45	22
DF		40	1	89	155	.509	4.44	1.53	156.9	803.3	6.83	240	1,227	137	48	25
DF		41	1	85	160	.485	4.44	1.45	163.6	813.3	6.78	238	1,183	136	48	24
DF		42	1	87	140	.462	4.44	1.39	155.0	803.3	6.12	215	1,113	122	43	22
DF		44	1	87	152	.421	4.44	1.26	188.8	1016.7	6.80	238	1,284	136	48	26
DF		47	1	88	177	.369	4.44	1.48	181.6	1040.0	7.64	268	1,535	153	54	31
DF		Totals	27	87	141	24.612	120.00	74.21	80.4	391.0	169.95	5,963	29,011	3,399	1,193	580
WH		27	1	86	120	1.118	4.44	3.35	61.1	260.0	6.56	205	872	131	41	17
WH		32	1	82	125	.796	4.44	2.39	57.6	306.7	4.40	138	732	88	28	15
WH		37	1	85	107	.595	4.44	1.19	132.5	595.0	5.05	158	708	101	32	14
WH		Totals	3	84	119	2.509	13.33	6.93	72.2	333.6	16.01	500	2,312	320	100	46
DF	S	33	1	87	78	.748	4.44	1.50	93.5	375.0	3.99	140	561	80	28	11
DF	S	34	1	37	20	.705	4.44									
DF	S	Totals	2	63	50	1.453	8.89	1.50	93.5	375.0	3.99	140	561	80	28	11
Totals			32	86	135	28.574	142.22	82.63	79.9	385.9	189.95	6,603	31,885	3,799	1,321	638

TC PLOGSTVB

Log Stock Table - MBF

TT4N RR6W S13 Ty00MC 20.00

Project: RUNDUO
Acres 20.00

Page 1
Date 5/7/2024
Time 2:34:41PM

Spp	S T	So Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	25+
DF		2M	40	545	2.8	529	91.2						26	29	168	174	102		110
DF		3M	25	1		1	.1					1							
DF		3M	33	1		1	.2			1									
DF		3M	34	2		2	.4			1		1							
DF		3M	36	1		1	.2			1									
DF		3M	37	2		2	.4			1	1								
DF		3M	40	34		34	5.9			3	14	10	8						
DF		4M	15	1		1	.1			1									
DF		4M	20	0		0	.1			0									
DF		4M	22	1		1	.2			1									
DF		4M	26	1		1	.1			1									
DF		4M	27	1		1	.1			1									
DF		4M	34	1		1	.2			1									
DF		4M	35	1		1	.2			1									
DF		4M	38	1		1	.2			1									
DF		4M	40	2		2	.3				2								
DF		Totals		595	2.5	580	91.0			15	17	12	34	29	168	174	102		110
DF	S	2M	40	10		10	93.3									10			
DF	S	3M	25	1		1	6.7				1								
DF		Totals		11		11	1.8				1					10			
WH		2M	20	7		7	16.2									7			
WH		2M	40	36	2.5	35	76.5						4		19		12		
WH		3M	40	2		2	4.6					2							
WH		4M	19	0		0	1.0			0									
WH		4M	27	1		1	1.7				1								
WH		Totals		47	1.9	46	7.3			0	1	2	4		19	7	12		
Total		All Species		654	2.5	638	100.0			15	18	14	38	29	187	192	114		110

Volume Summary
(Shown in MBF)
Run Duo
FG-341-2025-W01020-01
May 2023

UNIT 1: MC (71 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,944	366	59	3,369
	Hidden D&B (2%)	(59)	(7)	(1)	(67)
	NET TOTAL	2,885	359	58	3,302
	% of Total	87	11	2	
Western hemlock	Cruise Volume	16	5	14	35
	Hidden D&B (2%)	(0)	(0)	(0)	(0)
	NET TOTAL	16	5	14	35
	% of Total	46	14	40	
Western redcedar	Cruise Volume	31	42	4	77
	Hidden D&B (2%)	(1)	(1)	(0)	(2)
	NET TOTAL	30	41	4	75
	% of Total	40	55	5	

UNIT 2: MC (20 ACRES)

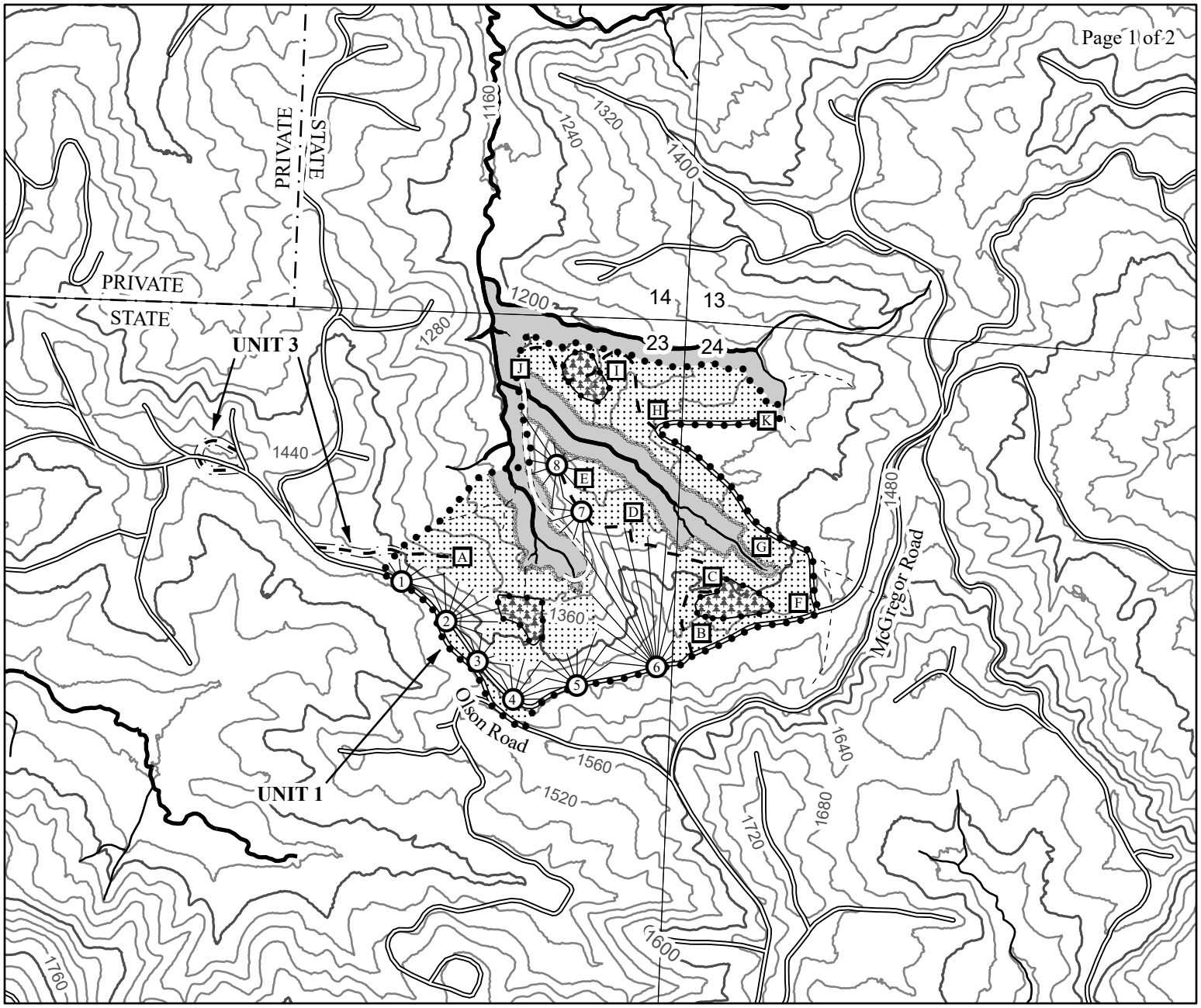
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	529	42	9	580
	Hidden D&B (2%)	(11)	(1)	(0)	(12)
	NET TOTAL	518	41	9	568
	% of Total	91	7	2	
Western hemlock	Cruise Volume	43	2	1	46
	Hidden D&B (2%)	(1)	(0)	(0)	(1)
	NET TOTAL	42	2	1	45
	% of Total	93	5	2	

UNIT 3: R/W (1 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	0	22	3	25
	Hidden D&B (2%)	(0)	(0)	(0)	(0)
	NET TOTAL	0	22	3	25
	% of Total	0	88	12	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	3,403	422	70	3,895
Western hemlock	58	7	15	80
Western redcedar	30	41	4	75
TOTAL	3,491	470	89	4,050



Legend

- Timber Sale Boundary
- Posted Stream Buffer Boundary
- ODF Ownership Boundary
- Posted Reserve Tree Area Boundary
- Right-of-Way Boundary
- Surfaced Road
- Unsurfaced Road
- New Road Construction
- Type-F Stream
- Type-N Stream - Perennial
- Type-N Stream - Seasonal
- Stream Buffer
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Green Tree Retention Area
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2025-W01020-01
RUN DUO
PORTIONS OF SECTIONS 12, 13, 14, 23 & 24, T4N, R6W, W.M.,
CLATSOP COUNTY, OREGON

N

Forest Grove District GIS
May, 2024
This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

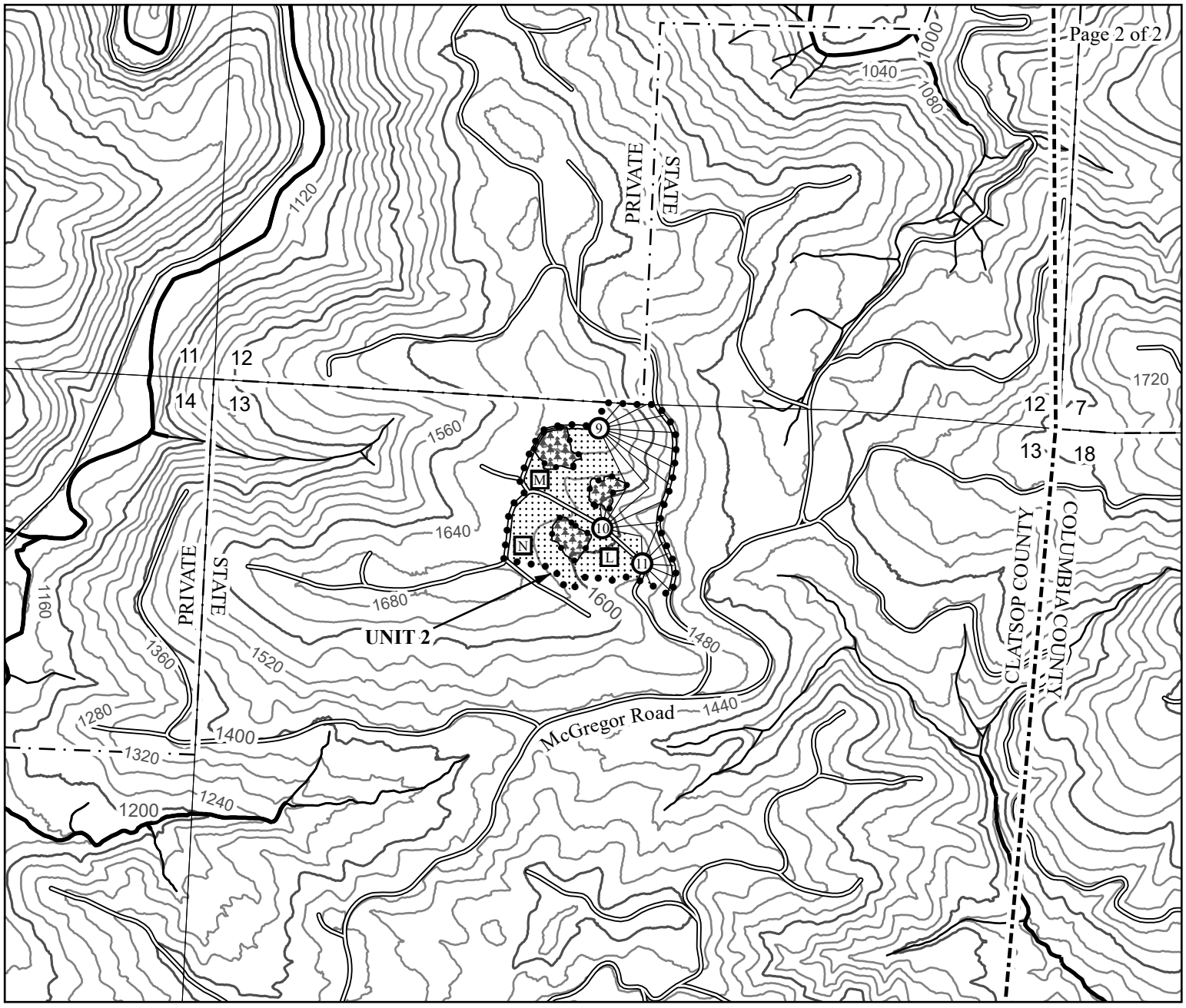
1:12,000

1 inch = 1,000 feet

0 500 1,000 2,000
Feet

APROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	47	24
UNIT 2	11	9
UNIT 3 (R/W)	1	0
TOTAL	59	33



Legend

- Timber Sale Boundary
- ODF Ownership Boundary
- Posted Reserve Tree Area Boundary
- Surfaced Road
- Type-F Stream
- Type-N Stream - Perennial
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Green Tree Retention Area
- County Line
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2025-W01020-01
RUN DUO
PORTIONS OF SECTIONS 12, 13, 14, 23 & 24, T4N, R6W, W.M.,
CLATSOP COUNTY, OREGON

Forest Grove District GIS
May, 2024
This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

1:12,000

1 inch = 1,000 feet

0 500 1,000 2,000 Feet

APROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	47	24
UNIT 2	11	9
UNIT 3 (R/W)	1	0
TOTAL	59	33